

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P194524

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-SL3-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39057 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



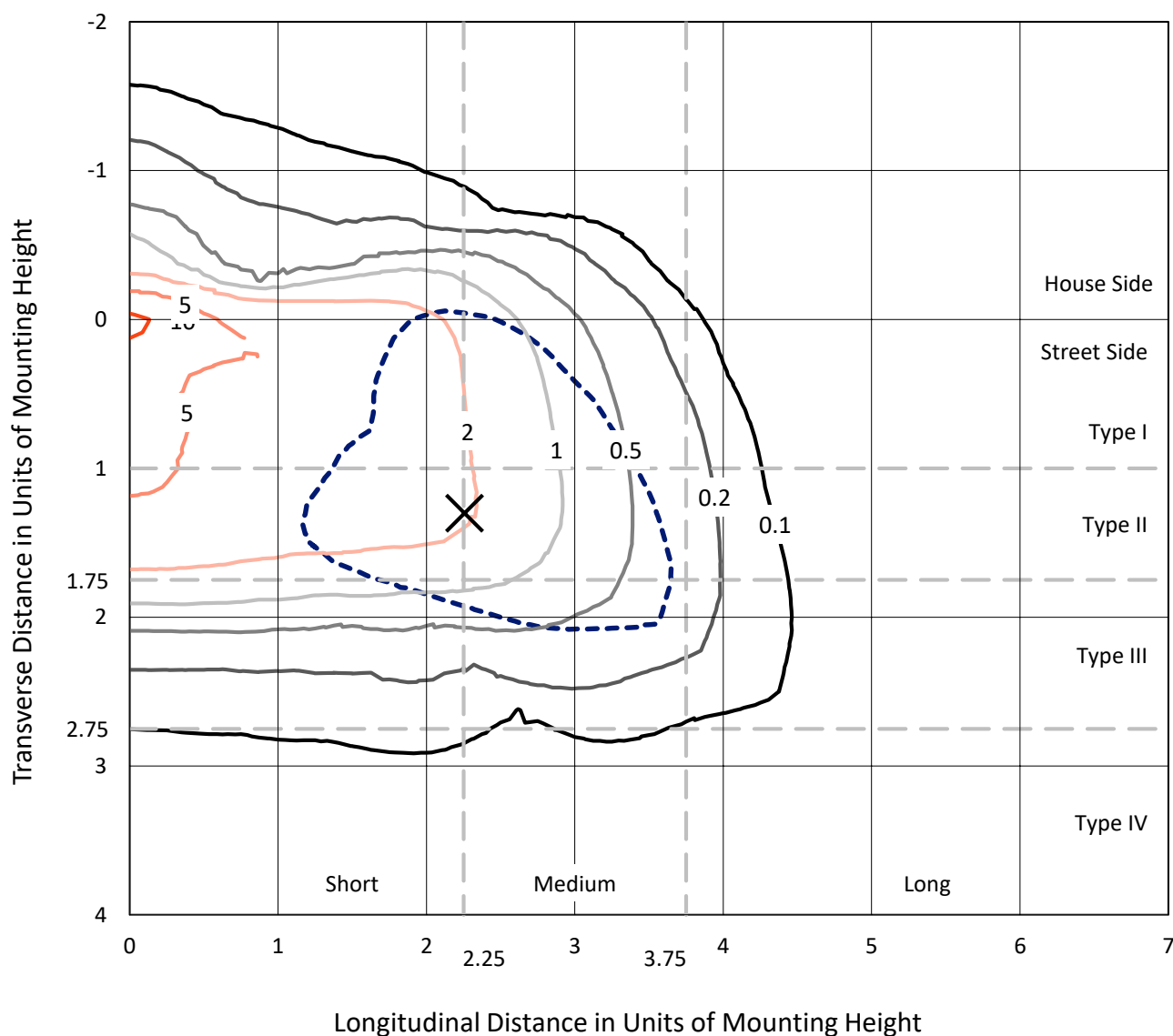
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

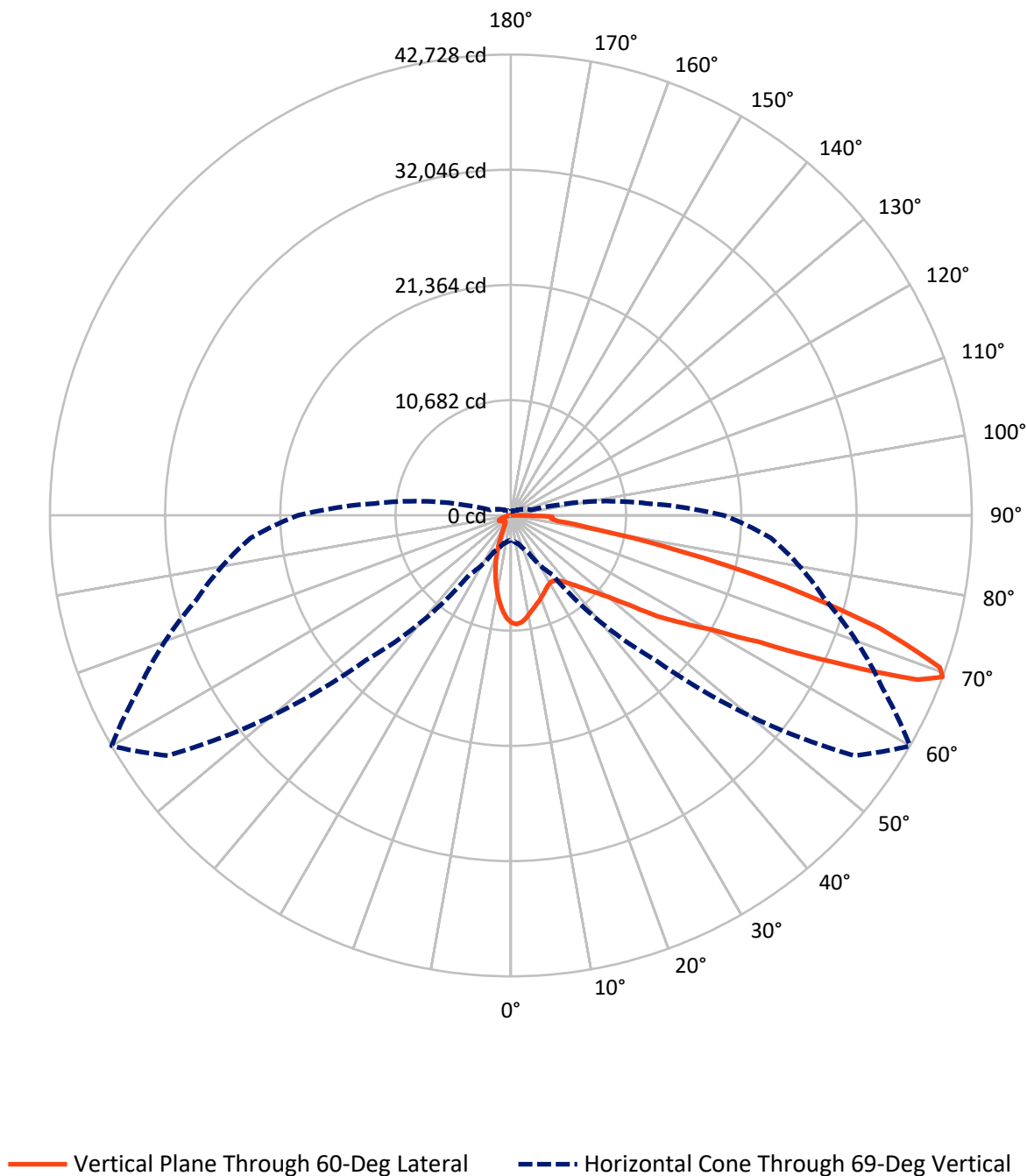


Based on 30 foot mounting height. Maximum calculated value = 11.1 fc  
Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5556.6   | 0.0    | 5556.6  |
|                    | % Fixture | 14.2     | 0.0    | 14.2    |
| <b>Street Side</b> | Lumens    | 33500.4  | 0.0    | 33500.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8    |
| <b>Total</b>       | Lumens    | 39057.0  | 0.0    | 39057.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 841.5   | 2.2       |
| 10°-20°   | 1792.9  | 4.6       |
| 20°-30°   | 2284.5  | 5.8       |
| 30°-40°   | 3140.5  | 8.0       |
| 40°-50°   | 5095.8  | 13.0      |
| 50°-60°   | 8172.4  | 20.9      |
| 60°-70°   | 10876.8 | 27.8      |
| 70°-80°   | 5872.7  | 15.0      |
| 80°-90°   | 979.9   | 2.5       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 39057.0 | 100.0     |
| 0°-180°   | 39057.0 | 100.0     |

**Coefficient of Utilization**



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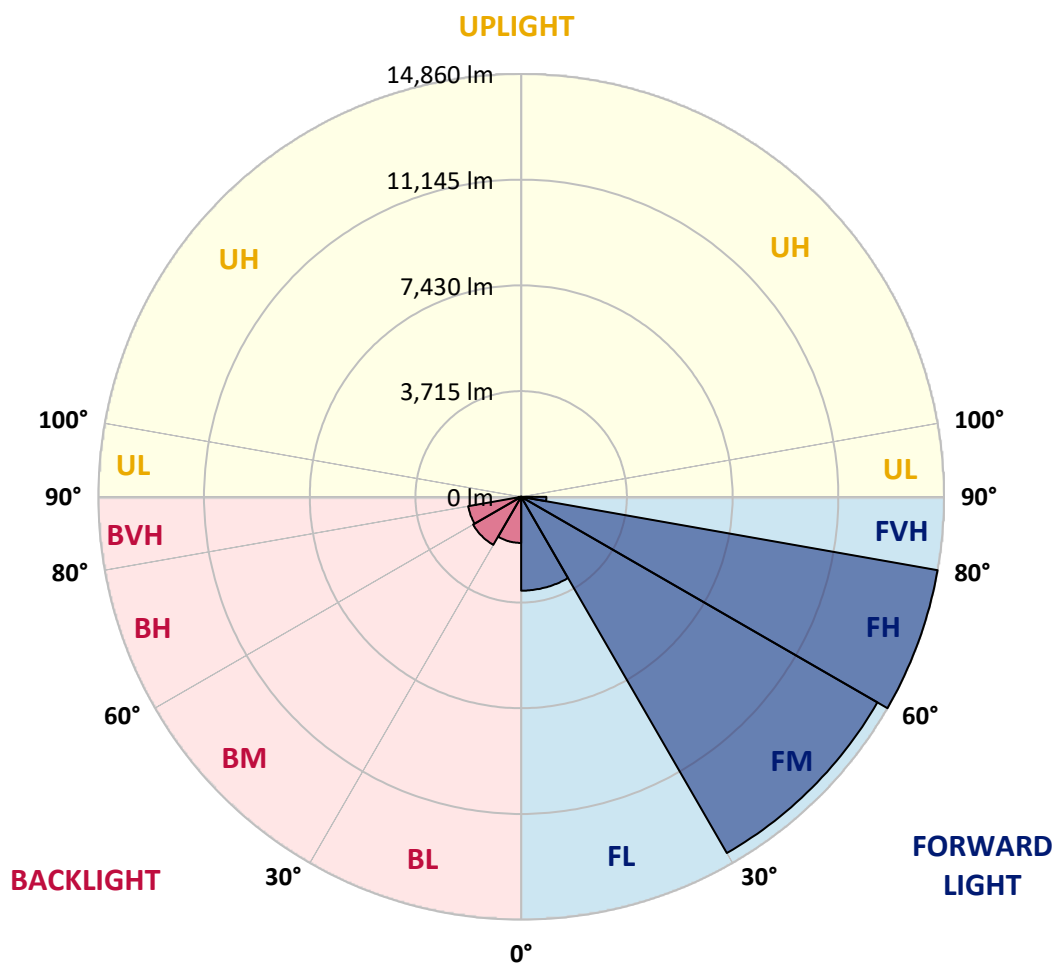
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL3-7060-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3297.8  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 14456.6 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 14860.4 | 38.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 885.5   | 2.3       |                         |      | G5      |
| BL   | (0°-30°)    | 1621.0  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1952.1  | 5.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1889.1  | 4.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 94.4    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 60°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9952.3  | 9952.3  | 9952.3  | 9952.3  | 9952.3  | 9952.3  | 9952.3  | 9952.3  | 9952.3  | 9952.3  | 9952.3  |
| 2.5°  | 10156.1 | 10178.7 | 10169.3 | 10163.6 | 10180.6 | 10154.2 | 10099.5 | 10082.5 | 10056.1 | 9993.8  | 9888.2  |
| 5°    | 9775.0  | 9842.9  | 9839.1  | 9890.1  | 9975.0  | 9997.6  | 9973.1  | 9976.8  | 9927.8  | 9850.4  | 9675.0  |
| 7.5°  | 9116.5  | 9144.8  | 9159.9  | 9271.2  | 9425.9  | 9550.5  | 9656.1  | 9690.1  | 9667.4  | 9601.4  | 9375.0  |
| 10°   | 8437.3  | 8459.9  | 8495.8  | 8626.0  | 8822.2  | 8993.9  | 9193.9  | 9309.0  | 9358.0  | 9346.7  | 9093.9  |
| 12.5° | 7854.3  | 7877.0  | 7924.1  | 8071.3  | 8305.2  | 8516.5  | 8807.1  | 8950.5  | 9067.5  | 9137.3  | 8865.6  |
| 15°   | 7331.7  | 7380.8  | 7426.0  | 7595.8  | 7858.1  | 8135.4  | 8463.7  | 8644.8  | 8826.0  | 8982.6  | 8663.7  |
| 17.5° | 6924.2  | 6973.2  | 6999.6  | 7154.3  | 7433.6  | 7773.2  | 8158.1  | 8371.3  | 8597.7  | 8854.3  | 8463.7  |
| 20°   | 6688.3  | 6711.0  | 6699.7  | 6786.4  | 7037.4  | 7397.7  | 7854.3  | 8101.5  | 8375.0  | 8733.5  | 8263.7  |
| 22.5° | 6622.3  | 6624.2  | 6582.7  | 6573.2  | 6735.5  | 7039.3  | 7529.8  | 7829.8  | 8165.6  | 8654.3  | 8092.0  |
| 25°   | 6782.7  | 6777.0  | 6663.8  | 6571.4  | 6588.3  | 6765.7  | 7216.6  | 7565.6  | 7990.2  | 8637.3  | 7960.0  |
| 27.5° | 7139.3  | 7156.2  | 6988.3  | 6814.7  | 6643.1  | 6637.4  | 6978.9  | 7346.8  | 7846.8  | 8714.6  | 7903.4  |
| 30°   | 7639.2  | 7667.5  | 7488.3  | 7267.5  | 6944.9  | 6678.9  | 6886.4  | 7216.6  | 7758.1  | 8875.0  | 7893.9  |
| 32.5° | 8186.4  | 8216.6  | 8080.7  | 7848.7  | 7426.0  | 6935.5  | 6950.6  | 7227.9  | 7754.3  | 9099.5  | 7958.1  |
| 35°   | 8769.4  | 8803.3  | 8733.5  | 8537.3  | 8067.5  | 7409.1  | 7195.9  | 7410.9  | 7877.0  | 9442.9  | 8129.8  |
| 37.5° | 9420.3  | 9473.1  | 9492.0  | 9305.2  | 8803.3  | 8033.5  | 7597.7  | 7758.1  | 8154.3  | 9920.2  | 8444.8  |
| 40°   | 10358.0 | 10431.5 | 10425.9 | 10158.0 | 9646.7  | 8876.9  | 8218.4  | 8260.0  | 8586.3  | 10557.9 | 8948.6  |
| 42.5° | 12154.1 | 12169.2 | 11699.4 | 11116.4 | 10574.9 | 9763.6  | 8950.5  | 8916.5  | 9182.5  | 11365.5 | 9690.1  |
| 45°   | 14438.9 | 14376.6 | 13331.4 | 12205.0 | 11544.7 | 10782.5 | 9903.3  | 9737.2  | 9939.1  | 12350.3 | 10618.3 |
| 47.5° | 16335.0 | 16191.6 | 14870.9 | 13316.3 | 12571.0 | 11890.0 | 11022.1 | 10731.5 | 10842.8 | 13467.2 | 11818.3 |
| 50°   | 16993.5 | 16885.9 | 15791.6 | 14240.8 | 13542.7 | 13240.8 | 12399.4 | 11988.1 | 12018.2 | 14799.2 | 13223.8 |
| 52.5° | 16852.0 | 16836.9 | 16106.7 | 14850.2 | 14452.1 | 14659.6 | 14350.2 | 13793.6 | 13499.3 | 16278.4 | 14740.7 |
| 55°   | 16518.0 | 16550.1 | 16286.0 | 15559.6 | 15491.7 | 16029.4 | 16899.1 | 16487.8 | 15572.8 | 17770.8 | 16308.6 |
| 57.5° | 15357.7 | 15440.7 | 16021.8 | 16452.0 | 17165.2 | 17965.1 | 18951.9 | 18834.9 | 17804.7 | 19383.9 | 18172.6 |
| 60°   | 12372.9 | 12565.4 | 14123.8 | 16278.4 | 18887.7 | 21389.5 | 21830.9 | 21559.3 | 20106.5 | 21385.7 | 20634.8 |
| 62.5° | 8669.4  | 8869.4  | 10722.1 | 14093.6 | 18604.7 | 25257.2 | 26977.9 | 25806.2 | 23412.0 | 24334.6 | 23821.4 |
| 65°   | 4641.3  | 4737.5  | 6152.5  | 9778.7  | 15706.7 | 26055.3 | 34500.1 | 32717.2 | 28645.7 | 27970.3 | 26547.7 |
| 67.5° | 2560.2  | 2613.1  | 3154.6  | 4937.5  | 10059.9 | 22944.1 | 39292.3 | 40639.4 | 35186.9 | 30390.9 | 26051.5 |
| 69°   | 2315.0  | 2364.0  | 2718.7  | 3739.4  | 6731.7  | 18970.7 | 38824.4 | 42728.0 | 38054.6 | 30151.3 | 24217.6 |
| 70°   | 2264.0  | 2309.3  | 2628.2  | 3447.0  | 5448.8  | 15636.9 | 37256.6 | 42194.0 | 38737.6 | 29292.8 | 22617.7 |
| 72.5° | 2037.6  | 2086.7  | 2396.1  | 3096.1  | 4656.4  | 7795.8  | 29511.7 | 35675.5 | 35169.9 | 25398.7 | 17155.7 |
| 75°   | 1899.9  | 1945.2  | 2469.7  | 3031.9  | 4458.3  | 4933.7  | 19455.6 | 26293.0 | 25853.4 | 17767.0 | 9250.5  |
| 77.5° | 813.2   | 809.4   | 1145.2  | 2565.9  | 4524.3  | 4777.1  | 10454.2 | 16425.6 | 14986.0 | 7593.9  | 2656.5  |
| 80°   | 543.4   | 533.9   | 543.4   | 754.7   | 4148.8  | 4803.5  | 5477.1  | 8337.3  | 6297.8  | 1935.7  | 1309.4  |
| 82.5° | 467.9   | 460.4   | 477.3   | 460.4   | 1458.4  | 5482.7  | 4656.4  | 4433.7  | 2994.2  | 1099.9  | 649.0   |
| 85°   | 315.1   | 301.9   | 411.3   | 413.2   | 688.6   | 4871.4  | 5245.0  | 3745.1  | 2422.5  | 652.8   | 320.7   |
| 87.5° | 150.9   | 147.2   | 239.6   | 292.4   | 403.8   | 1979.1  | 5884.6  | 3837.5  | 2443.3  | 333.9   | 152.8   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9952.3  | 9952.3  | 9952.3 | 9952.3 | 9952.3 | 9952.3 | 9952.3 | 9952.3 | 9952.3 | 9952.3 | 9952.3 |
| 2.5°  | 9856.1  | 9778.7  | 9703.3 | 9612.7 | 9518.4 | 9412.7 | 9359.9 | 9307.1 | 9293.9 | 9278.8 | 9225.9 |
| 5°    | 9584.4  | 9475.0  | 9286.3 | 9078.8 | 8859.9 | 8646.7 | 8484.5 | 8382.6 | 8305.2 | 8265.6 | 8195.8 |
| 7.5°  | 9233.5  | 9073.1  | 8742.9 | 8384.5 | 8016.6 | 7680.7 | 7390.2 | 7207.2 | 7033.6 | 6952.5 | 6860.0 |
| 10°   | 8899.5  | 8659.9  | 8146.7 | 7618.5 | 7090.2 | 6582.7 | 6105.3 | 5767.6 | 5467.6 | 5299.7 | 5180.9 |
| 12.5° | 8612.8  | 8284.5  | 7573.2 | 6858.1 | 6133.6 | 5411.0 | 4696.0 | 4133.7 | 3664.0 | 3416.8 | 3290.4 |
| 15°   | 8333.5  | 7937.3  | 7027.9 | 6120.4 | 5190.3 | 4207.3 | 3267.8 | 2630.1 | 2241.4 | 2086.7 | 2033.9 |
| 17.5° | 8080.7  | 7573.2  | 6480.8 | 5377.1 | 4216.8 | 3028.1 | 2196.1 | 1845.2 | 1696.1 | 1645.2 | 1628.2 |
| 20°   | 7807.1  | 7205.3  | 5912.9 | 4599.8 | 3201.7 | 2116.9 | 1715.0 | 1560.3 | 1499.9 | 1484.8 | 1477.3 |
| 22.5° | 7543.0  | 6843.0  | 5369.5 | 3767.7 | 2299.9 | 1633.9 | 1473.5 | 1409.4 | 1399.9 | 1413.1 | 1413.1 |
| 25°   | 7318.5  | 6518.5  | 4782.8 | 2898.0 | 1688.6 | 1375.4 | 1318.8 | 1303.7 | 1339.6 | 1388.6 | 1398.0 |
| 27.5° | 7150.6  | 6252.5  | 4158.3 | 2139.5 | 1345.2 | 1196.2 | 1194.3 | 1218.8 | 1307.5 | 1401.8 | 1420.7 |
| 30°   | 7035.5  | 5999.7  | 3490.4 | 1543.3 | 1128.2 | 1052.8 | 1083.0 | 1135.8 | 1266.0 | 1399.9 | 1435.8 |
| 32.5° | 6977.0  | 5812.9  | 2794.2 | 1194.3 | 966.0  | 924.5  | 975.4  | 1039.6 | 1167.9 | 1292.4 | 1339.6 |
| 35°   | 7022.3  | 5675.2  | 2137.6 | 996.2  | 852.8  | 820.7  | 873.5  | 935.8  | 1011.3 | 1064.1 | 1099.9 |
| 37.5° | 7192.1  | 5620.5  | 1613.1 | 892.4  | 775.4  | 745.2  | 786.8  | 822.6  | 852.8  | 867.9  | 884.9  |
| 40°   | 7558.1  | 5679.0  | 1292.4 | 839.6  | 732.0  | 694.3  | 711.3  | 724.5  | 743.4  | 758.5  | 766.0  |
| 42.5° | 8097.7  | 5854.4  | 1158.4 | 818.8  | 709.4  | 654.7  | 650.9  | 656.6  | 681.1  | 709.4  | 715.1  |
| 45°   | 8852.4  | 6163.8  | 1149.0 | 832.0  | 698.1  | 622.6  | 605.6  | 613.2  | 650.9  | 694.3  | 701.9  |
| 47.5° | 9816.5  | 6635.5  | 1224.5 | 871.7  | 707.5  | 605.6  | 577.3  | 586.8  | 633.9  | 692.4  | 701.9  |
| 50°   | 10984.3 | 7294.0  | 1350.9 | 930.1  | 749.0  | 609.4  | 567.9  | 573.6  | 622.6  | 686.8  | 696.2  |
| 52.5° | 12363.5 | 8227.9  | 1488.6 | 986.7  | 792.4  | 633.9  | 575.4  | 562.2  | 607.5  | 664.1  | 675.4  |
| 55°   | 13897.4 | 9425.9  | 1630.1 | 1037.7 | 815.1  | 664.1  | 590.5  | 547.1  | 579.2  | 626.4  | 635.8  |
| 57.5° | 15780.3 | 11101.3 | 1875.4 | 1086.7 | 830.1  | 684.9  | 605.6  | 532.0  | 543.4  | 577.3  | 584.9  |
| 60°   | 18329.2 | 13471.0 | 2307.4 | 1167.9 | 864.1  | 692.4  | 603.7  | 518.8  | 507.5  | 526.4  | 530.2  |
| 62.5° | 21383.8 | 16044.5 | 2667.8 | 1269.7 | 920.7  | 698.1  | 592.4  | 509.4  | 477.3  | 477.3  | 481.1  |
| 65°   | 23196.9 | 16733.1 | 2467.8 | 1354.6 | 967.9  | 692.4  | 579.2  | 500.0  | 454.7  | 433.9  | 435.8  |
| 67.5° | 21659.3 | 14716.2 | 2115.0 | 1371.6 | 966.0  | 666.0  | 558.5  | 483.0  | 432.1  | 400.0  | 398.1  |
| 69°   | 19732.9 | 12697.5 | 1956.5 | 1326.3 | 920.7  | 632.0  | 532.0  | 464.1  | 415.1  | 381.1  | 379.2  |
| 70°   | 18180.2 | 11465.4 | 1852.7 | 1277.3 | 871.7  | 607.5  | 511.3  | 447.1  | 401.9  | 369.8  | 366.0  |
| 72.5° | 13218.2 | 7512.8  | 1582.9 | 1098.1 | 718.8  | 509.4  | 441.5  | 392.4  | 358.5  | 339.6  | 335.8  |
| 75°   | 6605.3  | 3582.8  | 1284.8 | 890.5  | 550.9  | 407.5  | 362.2  | 328.3  | 311.3  | 307.5  | 305.6  |
| 77.5° | 2169.7  | 1641.4  | 918.8  | 664.1  | 409.4  | 318.9  | 292.4  | 267.9  | 264.1  | 275.5  | 271.7  |
| 80°   | 1192.4  | 954.7   | 583.0  | 439.6  | 279.2  | 234.0  | 230.2  | 217.0  | 222.6  | 241.5  | 237.7  |
| 82.5° | 607.5   | 496.2   | 360.4  | 264.1  | 188.7  | 167.9  | 183.0  | 175.5  | 183.0  | 200.0  | 198.1  |
| 85°   | 300.0   | 271.7   | 228.3  | 160.4  | 124.5  | 107.5  | 130.2  | 135.8  | 139.6  | 152.8  | 152.8  |
| 87.5° | 173.6   | 160.4   | 120.7  | 75.5   | 62.3   | 56.6   | 75.5   | 73.6   | 86.8   | 94.3   | 92.4   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)